



Remote Sensing Applications Division (RSAD)

CDR Program Office

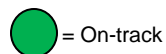
Weekly Report for April 12, 2013
Ed Kearns, Acting Chief

	CDR PI TM		Assessment		Deliver Drafts						Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release		
			Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metadata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Put dataset on THREDDS access server	Put data, docs, and code on web page	Conduc ORR
1	UAT 4Layer MW RSS	Mears Kim	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	29-Jan	7-Feb	30-Jan	30-Jan	7-Feb	11-Feb	14-Feb	
2	Vegetation (Sfc Ref and NDVI)	Vermote Matthews	x	17-Jan																										
3	Cryosphere (APP and APP-x)	Key Peng	x	x																										
4	Solar Irradiance (Oservational and Composite)	Pilewski Zhao	x	1-Jan																										
5	PERSIANN precipitation	Soorosh Nelson	x	x	26-Feb	30-Jan	x	30-Nov			4-Mar	22-Feb	22-Jan																	
6	Atmos Temp Bundle (AMSU only)	Zou Semunegus	x	x																										
7	Ocean Surface Bundle	Clayson Zhang	x	21-Feb																										
8	Cloud/ Moisture Bundle	Menzel Young	x	31-Jan																										
9	OISST	Reynolds Banzon	x	x	x	x	June?	x	x	x				x						x							x	x		
10	MSU/AMSU Temp Suite	Ho Shi	x	PI requested 1 yr ext																										
11	ISCCP	Rossow Knapp	x	17-Jan	On hold until funding																									
12	OLR Daily	HT Lee Shi	x	x																										
13	AMSU-A CH7	Ho Shi	x	x																										
14	MW Imager SSM/I(S)	Kummerow Semunegus	x	x		x	x		x					x																

Notes (as of 4/11):

- ② Had telecon with PI, received sample code and data, v3 will be locked down for transition, TM changing to Pierre
- ③ Had telecon with PI, CIMS now produce the APP (FCDRs) as input to APP-x (TCDRs), could transition and provide NRT (~3 day lag)
- ④ **PI plans to deliver TSI Observational CDR and TSI Composite CDR (Lean);**
- ⑤ **Received second delivery of source code package; about 50% of code was documented, headers and format provided just needed minor tweaks**
- ⑦ PI plans to deliver all CDR parts for Ver 2.0, but not within the time or \$ constraints of the original proposal, ECD - Nov 2013
- ⑧ PI plans to deliver algorithms and documentation for CTP and TPW, but not full dataset; **SOW in work for Cao funding for N6,7,8 calibration**
- ⑩ PI requested 1 year extension; no assessment items available, mainly due to delay in CDAAC's processing/re-processing/validation activities

PREDECISIONAL DRAFT INFORMATION



= On-track



= Potential management action required



= Management attention required

Other CDR Discussion Items

- **Working CDR flyers (minimal text, maximum graphics):**
 - Received final High Resolution flyers for OISST and SCE from Graphics (ready to link on the web page)
 - Received all flyer information and images for remaining 11 flyers from TMs.
 - Sent all items to graphics for initial drafts of remaining flyers
 - **Received 3 Drafts for AOT, HIRS Ch12, AMSU Ch9**
 - **Reviewed and sent back to graphics for edits.**
- **C-ATBDs for operational CDRs**
 - **PATMOS-x (complete)**
 - **HIRS Clear-sky CH12 Brightness Temp (Received Draft, provided feedback) – Final by end of Apr.**
 - **OISST (Draft expected in June)**
 - **GEO IR Brightness Temp**
- **CDR Program Glossary**
 - **Updated and sent out for review**
 - **Received some feedback, (remaining due by 4/12)**

SCHEDULE OF DELIVERABLES - CDRP 2012 O&M Contracts and Grants

Name of PI/Institution	Applications	Implementa tion Plan	Main Update	Routine updates	QA Tools/Process	IP License	CDRP action required?
Christy, J./UAH	- <i>Atmospheric Temperature Profiles</i> - <i>Numerical Weather Prediction</i>	11/7/2012 CDRP-PLAN-0296	To be coordinated with CDRP, new version - should deliver Aug/Sep	Monthly/8th day of the succeeding month - once delivered	Will need to submit his procedure as part of his new version	YES	YES JG - notify PI: approved Imp Pln CH - open CR for v5.5 and hold IPT meeting
Evans, B./UM (CICS-NC)	- <i>El Nino/La Nina Prediction</i> - <i>Coral Reef Monitoring</i> - <i>IMPACT</i>	9/12/2012 CDRP-PLAN-0290	Undergoing final QC at NODC	Monthly/10th day of the succeeding month	10/23/2012	NO	No
Heidinger, A./NOAA-STAR	- <i>Global Cloud Coverage</i> - <i>Agriculture Assessment</i>	8/16/2012 CDRP-PLAN-0223	Will be delivering entire POR re-processed in netCDF format	Daily/Within 7days of the observation date	9/1/2012	N/A	YES CH - monitor progress with needed changes in the SA
Ho, B./UCAR	- <i>Upper Air Climate Monitoring</i> - <i>GPS Accuracy</i>	11/5/2012 CDRP-PLAN-0294 (CH9) CDRP-PLAN-0295 (CH7)	To be coordinated with CDRP, new version	Quarterly/10th day of the month following the end of the quarter	12/17/2012	YES	YES CH - monitor progress with needed changes in the SA JG - notify PI: approved Imp Pln
Mears, C./RSS (CICS-NC)	- <i>Atmospheric Temperature Profiles</i> - <i>Numerical Weather Prediction</i>	10/30/2012 CDRP-PLAN-0301	1/15/2013	Once transitioned: Monthly/8th day of the succeeding month	12/15/2012	YES	YES JG - notify PI: approved Imp Pln
Meier, W./U of CO	- <i>Arctic Shipping Routes</i> - <i>Wildlife Management</i> - <i>IMPACT</i>	11/1/2012 CDRP-PLAN-0285	4/30/2013	Quarterly/within 30days of each RSS data delivery	12/1/2012	YES	YES CH - monitor progress with needed changes in the SA JG - notify PI: approved Imp Pln
Robinson, D./Rutgers	- <i>Climate Monitoring</i> - <i>Water Resource Management</i>	10/11/2012 CDRP-PLAN-0297	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	YES JG - notify PI: approved Imp Pln CH - monitor progress with needed changes in the SA CH - touch base with SME
Wentz, F./RSS (CICS-NC)	- <i>Precipitation Patterns</i> - <i>Hurricane Intensity Estimates</i>	11/1/2012 CDRP-PLAN-0308	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	Will need to submit his procedure as part of his new version	YES	CH - place updated documentation into the library and update the website with v7 docs and data when data downloads improve

CDR Program Office

NPP/JPSS Climate Raw Data Records (C-RDRs) Project

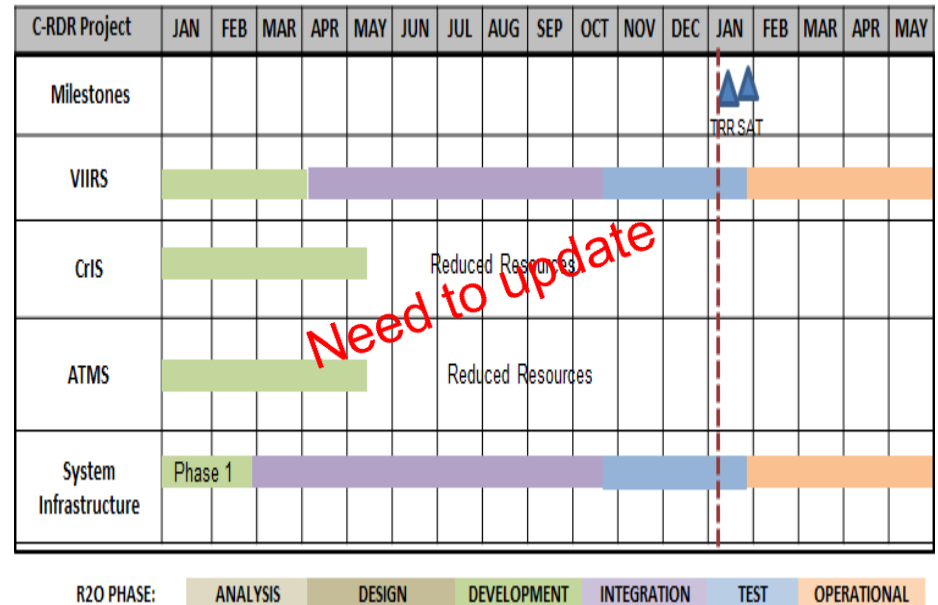
Weekly Report – April 13, 2013

VIIRS

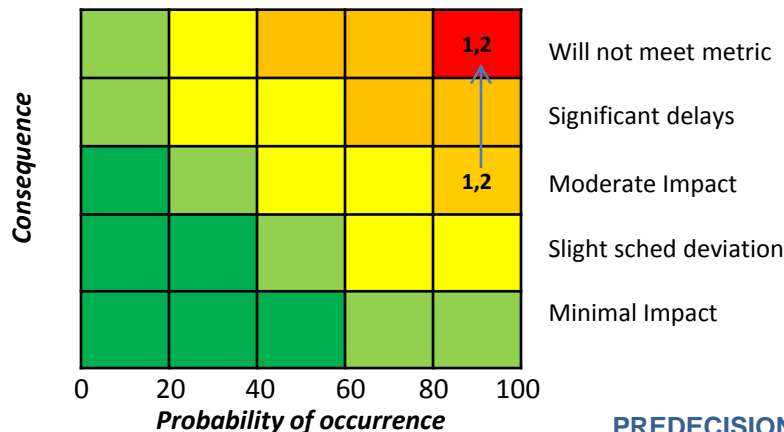
- ① Completed code for C-RDR and Support Data..

② System Infrastructure

- Integrating with the VIIRS C-RDR.
- C-RDR is first product moving to three tier environment.
- ITB is working to set up the test container.
- Resetting container links after GPFS changes to Blade Center.
- Debugging two errors received in the data stream.
- Configuring browser-based review tool for final code review.
- Initial verification of SDR from C-RDR compared successfully.
- Draft System Acceptance Test procedure completed.
- VIIRS Product Specification is ITAR approved.
- C-RDR access via HAS (two years of tapes for HDSS).
- Integrating: Ingest data from CLASS and producing C-RDRs.
- Will deliver initial version with ADL 3.1.



Risk Matrix



Risk and Mitigation

VIIRS, CrIS, ATMS –

- Resources are being reduced. Delivery of CrIS and ATMS will be delayed.
- Operational software is under maintenance, updated versions may affect C-RDR ported version.

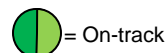
System Infrastructure –

Reliability of NPP RDRs from CLASS. Need to test ingest of RDRs from CLASS and develop an automated mechanism for re-requesting data.

Reliability of Blade Center administration support. ITB admin position remains unfilled.

PREDECISIONAL DRAFT INFORMATION

4/23/2013



= On-track

= Potential management action required

= Management attention required

CDR Program Office

OISST Research to Operations Project

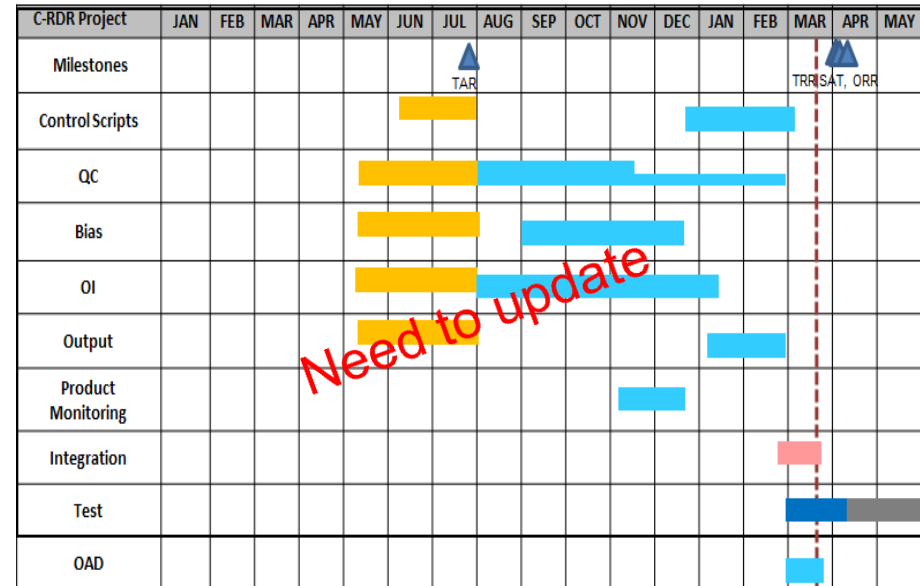
Weekly Report – April 13, 2013

1 OISST – Optimum Interpolated Sea Surface Temperature

- Blade Center unavailable last week.
- Finishing final code updates based on code review comments.
- Setting up test data on Rainband for parallel test.
- Working with Global Surface Temperature WG to identify priorities for OISST in operations.
- Completed code reviews (QC, output, control scripts).
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Evaluating validity/duplicates in compile options & static analysis.
- Defined list of tasks for refactoring of each component.
- Developing tests (functional & component) to verify code.
- Completed testing of static analysis and complexity tools.
- Conducted Technology Assessment Review July 25.

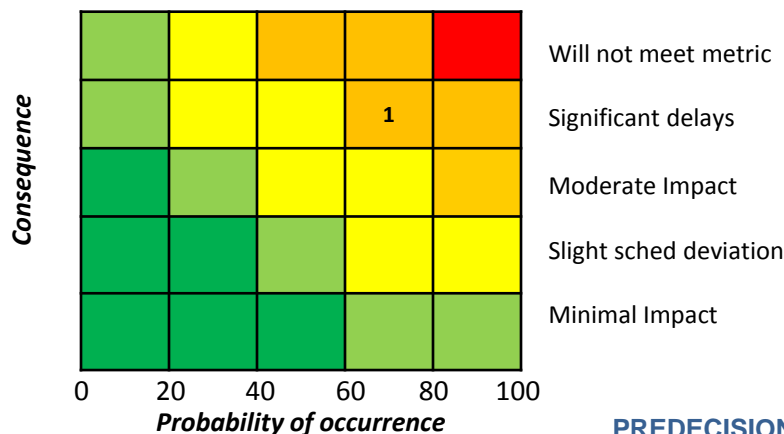
Operations:

- Updated and tested scripts to handle new sea ice data format.



R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

Risk Matrix



Risk and Mitigation

Resource availability for performing the transition. Need scientific evaluation of reliable/archived inputs (ICOADS).

Configuration Management (CM) process not defined for operations. CM process is being defined.

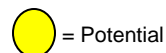
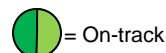
No Quality Assurance team available.

Modifying existing software for internal software changes. Product output must remain unchanged for users. Run in parallel with current version.

OISST processing will be on a 64 bit architecture.

PREDECISIONAL DRAFT INFORMATION

4/23/2013



= On-track

= Potential management action required

= Management attention required



CDR Program Office

FY13 Agile Product Development

Weekly Report – April 12, 2013

0. Methodology – Sprint FY13.E March 25 – April 19

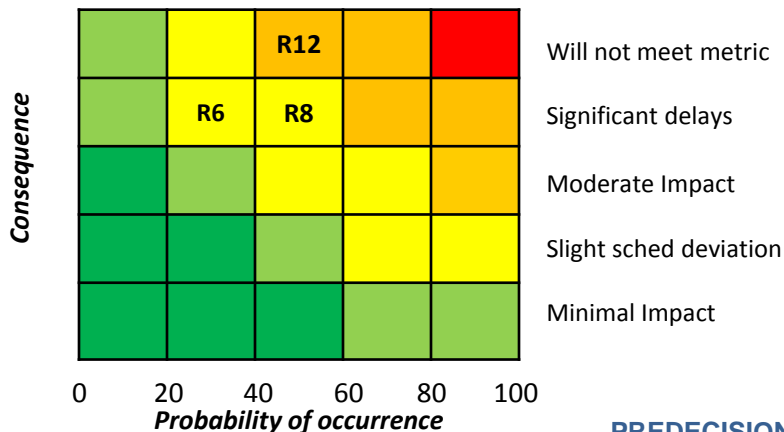
- Focus is publication of OAD Template, updating ORR checklist for IOC and FOC, assisting OISST group in developing OAD, and beginning work on CDRP requirements management.
- Work was underestimated and not all items will be completed.

5.4 Operational Algorithm Description (OAD) Template

- 82 actionable comments received from Operations Branch, Products Branch, and CDR Program Office staff. **Thank you!**
- 32 comments resolved, 13 deferred for discussion, 37 pending.
- Anticipate follow-up tabletop review next week.
- Discussion themes include cost, organizational roles, transparency versus security

Agile Product Development		J	Feb					Mar					Apr					May				
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
		26-1	2-8	9-15	16-22	23-1	2-8	9-15	16-22	23-29	30-5	6-12	13-19	20-26	27-3	4-10	11-17	18-24				
Sprint	Principal Focus																					
B	IOC to FOC Selection																					
C	Support for DISST FOC transition					Slipped 2 weeks																
D	Support for DISST FOC transition																					
E	Support for DISST FOC transition																					
F	TBD																					
G	TBD																					
H	TBD																					
I	TBD																					
J	TBD																					

Risk Matrix



Top Risks and Mitigation

R12. Funding gap or cut

- Gaps or cuts may result in staff furloughs, layoffs, or resignations. Delivery milestones may not be met. Using Agile methodology to minimize potential waste from unfinished work.

R8. Lack of independent Process and Product Quality Assurance

- Products may not perform correctly in the user's environment. Scarce resources may be diverted to perform rework. Previous results may not be reproducible. Reputation of Center and its contractors could suffer. Risk is accepted since effective mitigation for the CDR Program would require a Center-wide solution.

R6. Personnel at maximum workload

- Loss or illness of any staff member would jeopardize the timely delivery of the planned products. Using Agile methodology to minimize waste from unfinished work.